

ABSTRACT

TITLE :

SAMPLE PROCESSING SYSTEM FOR A PLASMA SPECTROMETER
FOR ANALYSING VISCOUS SAMPLES, AND SAMPLES INSOLUBLE AT
ROOM TEMPERATURE

ASSIGNEE :

JOBIN YVON S.A.

INVENTION OF :

ROGERIEUX Olivier
FAUCHER Pascal
DUBUISSON Cendrine
DANTHEZ Yves

The invention relates to a sample processing system for a plasma spectrometer for analysing viscous samples, and samples insoluble at room temperature. The system comprises a tray with tubes containing the sample, a heating block comprising a thermoregulation switch and means for collecting the sample from tubes. Said means are connected to a transfer tube transferring the solution that is pumped down by a peristaltic pump. The peristaltic pump is controlled by a controller box and comprises a first pump tubing of internal diameter ϕ and a second pump tubing of internal diameter ϕ' . A sample introduction system is fed by the peristaltic pump and contains a nebulizer and a spray chamber placed in a thermoregulated box. According to the invention, said sample processing system is thermoregulated, temperatures are variable and can be selected according to the nature of the sample to analyse.

Figure 1